817-1870 COLORTREND®YELLOW OXIDE

C

degussa.

Material no. Specification

Order Number

139568

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : 817-1870 COLORTREND®YELLOW OXIDE C

Use of the Substance / : Aqueous colorant

Preparation

Company : Degussa Corporation

379 Interpace Parkway Parsippany,NJ 07054

USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY

NUMBER

800-424-9300

CANADA: CANUTEC EMERGENCY NUMBER

613-996-6666

Product Regulatory Services : 973-541-8060

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components

NJTSR No.56705700001-5043P

CAS-No. Trade Secret Percent (Wt./ Wt.) 1.0 - 5.0 %

ethanediol; ethylene glycol

CAS-No. 107-21-1 Percent (Wt./ Wt.) 10 - 30 %

C.I. Pigment Yellow 42 (Iron oxide)

CAS-No. 51274-00-1 Percent (Wt./ Wt.) 30 - 60 %

Diethylene glycol

CAS-No. 111-46-6 Percent (Wt./ Wt.) 1.0 - 5.0 %

Other information

This material is classified as hazardous under OSHA regulations.

3. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-liquid Color-yellow Odor-Glycol odor.

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COLORTREND colorants may cause eye, skin and respiratory tract irritation. May be harmful if swallowed.

POTENTIAL HEALTH EFFECTS

Eye contact

According to test results on COLORTREND base mixtures, this product is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

Skin Contact

Possibly irritating.

Inhalation

COLORTREND colorants may cause irritation.

Ingestion

Moderately toxic. May be harmful if swallowed.

Ingestion of ethylene glycol may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, irritability and central nervous system effects. Swallowing large volumes of ethylene glycol causes severe kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal. The human oral lethal dose is approximately 1.6 g/kg.

Ingestion of excessive amounts of diethylene glycol causes abdominal discomfort or pain, nausea, vomiting, dizziness, central nervous system effects, kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal (estimated human oral lethal dose, 1.0 to 1.2 g/kg) and may cause liver effects.

Ingestion of ethylene glycol can cause neurological impairment.

Repeated ingestion of ethylene glycol can cause bone marrow, liver, and sperm effects.

Chronic Health Hazard

Ethylene glycol may aggravate an existing kidney disease. Repeated skin contact with ethylene glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis. The incidence is significantly less than 1% with the undiluted material. Repeated inhalation of ethylene glycol mist may produce signs of central nervous system involvement, particularly dizziness and drowsiness.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica. Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

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Skin contact

Wash contaminated area with lukewarm gently flowing water for at least 20-30 minutes. Remove contaminated clothing, shoes and leather goods under running water. If symptoms develop or persist, otain medical attention. Wash clothing before reuse.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

Specific hazards during fire fighting

Burning will produce hazardous compounds including oxides of: carbon.

Further information

Containers can build up pressure if exposed to heat (fire). Cool with water spray. As in any fire, wear self-contained, pressure-demand breathing apparatus (MSHA-NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Additional advice

Remove sources of ignition and ventilate area.

Use personal protective equipment as described in Section 8. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

7. HANDLING AND STORAGE

Handling

Safe handling advice

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage

Requirements for storage areas and containers

Keep in a dry, cool place.

Keep container closed when not in use.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

· ethanediol; ethylene glycol

CAS-No. 107-21-1 Control parameters 100 mg/m3

Aerosol.

Vapor.

40 ppm 100 mg/m3 Ceiling Limit Value:(US CA OEL)

Ceiling Limit Value:(ACGIH)

Engineering measures

Local exhaust and mechanical ventilation recommended.

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Eye protection

Use chemical splash goggles or face shield.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid
Color yellow
Odor Glycol odor.

Safety data

pH 8.0 - 9.0

Boiling point/range > 100 °C

Relative density 1.8

Solubility/qualitative Solubility in water: Dispersible.

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Viscosity, dynamic 80 - 95 KU (25 °C)

Solvents and Volatiles Data

% VOC (gm/l) 530.18

Evaporation rate Slower than butyl acetate

10. STABILITY AND REACTIVITY

Materials to avoid strong acids, oxidizing substances, sodium hypochlorite

11. TOXICOLOGICAL INFORMATION

Component Acute oral toxicity NJTSR No.56705700001-5043P

Trade Secret

LD50 Rat: 3000 mg/kg

ethanediol; ethylene glycol

107-21-1

LD50 Rat(female): 4000 mg/kg

C.I. Pigment Yellow 42 (Iron oxide)

51274-00-1

LD50 Rat: > 5000 mg/kg

Diethylene glycol

111-46-6

LD50 Rat: 20760 mg/kg

Component Acute dermal toxicity NJTSR No.56705700001-5043P

Trade Secret

LD50 Rabbit: 2800 mg/kg

ethanediol; ethylene glycol

107-21-1

LD50 Rabbit: 10500 mg/kg

Diethylene glycol

111-46-6

LD50 Rabbit: 13300 mg/kg

Component Repeated dose

toxicity

ethanediol; ethylene glycol

107-21-1

Chronic ingestion of an ingredient in this product has been shown to cause adverse effects on the peripheral nervous system of laboratory animals.

C.I. Pigment Yellow 42 (Iron oxide)

51274-00-1

Prolonged inhalation of iron oxide dust is known to produce a condition

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known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica.

Component teratogenicity assessment

NJTSR No.56705700001-5043P

Trade Secret

An ingredient in this product has been shown to cause developmental toxicity in laboratory animals in the presence of maternal toxicity.

ethanediol; ethylene glycol

107-21-1

Potential embryo-foetal toxicity and teratogenicity.

Product General Toxicity Information

According to long-term animal inhalation studies, very high concentrations of diethylene glycol vapors caused central nervous system effects in mice and rats. However, an extensive review of the literature shows that no such effects have been documented in humans (Patty's Industrial Hygiene and Toxicology, 1982, Third Revised Ed., Vol 2c, p 3838).

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses. However, there is no available information to suggest that ethylene glycol has caused birth defects in humans. In a continuous breeding study of mice, continued ingestion of large amounts of diethylene glycol (6 g/kg/day) caused an adverse effect on fertility and some embryotoxic and fetotoxic effects concurrent with some maternal toxicity. The relevance of these very high doses to humans is uncertain.

12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

13. DISPOSAL CONSIDERATIONS

WASTE

Advice on disposal Waste must be disposed of in accordance with federal, provincial and local

regulations. Empty containers must be handled with caredue to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN

ELECTRIC OR GAS TORCH.

14. TRANSPORT INFORMATION

Transport/further information

Not classified as dangerous in the meaning of transport regulations.

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15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

Water

CAS-No. 7732-18-5

Percent (Wt./ Wt.)

10 - 30 %

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

 ethanediol; ethylene glycol CAS-No. 107-21-1

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

 ethanediol; ethylene glycol CAS-No. 107-21-1

Reportable Quantity 28736 lbs

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

 ethanediol; ethylene glycol CAS-No. 107-21-1

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

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State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact Degussa Corporation Product Regulatory Department:

Europe (EINECS/ELINCS)
 USA (TSCA)
 Canada (DSL)
 Australia (AICS)
 Japan (MITI)
 Not listed/Not registered
 Listed/registered
 Listed/registered
 Not listed/Not registered

Japan (MTT)
 Korea (TCCL)
 Philippines (PICCS)
 China
 Not listed/Not registered
 Not listed/Not registered
 Not listed/Not registered

16. OTHER INFORMATION

HMIS Ratings

Health: 2 Flammability: 1 Physical Hazard: 0

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.